



Phase 2 Activity Report October 4, 2021

ITEM DESCRIPTION: PROGRESS REPORT

GENERAL NOTES:

1. Refinery De-Inventory Plan Phase 2, has been put on hold during the period of transition of LBR employees to Contractor. The sequence of the scheduled activities remains the same.
2. Phase 2 was also put on hold until No 8 Flare CEMS troubleshooting is completed.
3. The Phase 2 activities are being re-programmed to commence the week of October 4, 2021.

• HIGHLIGHTS – WEEK ENDING – October 4, 2021 No 8 Flare

1. Period September 26 to October 4, 2021
 - i. No 8 Flare system was blinded including the purge gas line
 - ii. No process units were opened to the flare
 - iii. The flare KO Drums, were also insulated (block valves before the flare blind) and all process units were kept with corresponding flare heaters blocked in (single isolation)
 - iv. No. 7 vaporizer and fuel gas system remained isolated
 2. Fuel Gas CEMS – Continuous Emission Monitoring System
 - a. System continued to be isolated as the no 7 vaporizer and fuel gas system were kept down while working at the No 8 Flare CEMS and Panametrics probes
 3. Flare 8 CEMS and Panametric flow meter No 8 Flare CEMS
 - i. Panametrics representative was on site Sept 30 and October 1, 2021
 - i. Probes were pulled and found covered with sludge and showing indication of flow
 - ii. Probe's nozzles hydro-blasting in progress troubleshooting
 - iii. Panametric expected to complete work tomorrow
 - ii. Extrel continued testing of the systems:
 1. Analyzer had interference in the sampling system that had to be re-calibrated
 2. The sampling system that was found with particulates and oil was cleaned and section of the system replaced with new sampling tubing.
 3. Analyzer sampling probe filter pulled for inspection on October 4, 2021
 4. Extrel expected to complete work tomorrow
 4. H2S Scavenger system continued to be fully functional
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- **IoMosaic Independent Observer**
 - i. New IoMosaic representative (Wesley Wong) is on site
 - ii. On call 24/7

• EPA – OSC – On- Scene – Coordinator

1. Continued to have a minimum of twice a day conversation with EPA- OSC on activities and schedules
2. Were notified that all activities associated with Phase 2 were put on hold until after No 8 Flare CEMS were resolved
3. Will be notified before any warm circulation or steam degassing activities occur

• SO₂/H₂S Ambient Monitoring Stations and Telemetry

1. Ambient monitoring stations were received

• Formalized operations manpower allocation to proceed with Phares

• Initiated water flushing of the Kero system (OSBL piping appurtenant to process unit) to displace to storage



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Process units remained as previous week

- **No 5 Crude Unit**
Ready to start heat -up and warm circulation
- **No. 3 Vacuum**
Ready to start heat -up and warm circulation
- **No 4 Hydrobon**
Pump out step – 90 % completed
- **No 4 Platformer Unit**
Pump out step – 90 % completed
- **No. 3 Hydrobon**
Completed pump out
- **No. 6 DD – Distillate Desulfurizer**
Pump up 80% completed
- **No. 7 DD – Distillate Desulfurizer**
Pump out – 90% completed
- **No. 9 DD – Distillate Desulfurizer**
Pump out – 100% completed

PROJECTION FOR THE PERIOD October 5, 2021

- **No 8 Flare CEMS**
Continue working on the analyzer sampling system and cleaning of the sample probe at the header
- Conducted a meeting with EPA -OSC , IoMosaic and LBR personnel to address the installation of 5 SO₂/H₂S Ambient Monitoring analyzer
- Prepare the system and recommission the No 8 Flare after completion of the Flare CEMS and reinstallation of the Parametric Flow probes